

4-420

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Fig. 1.

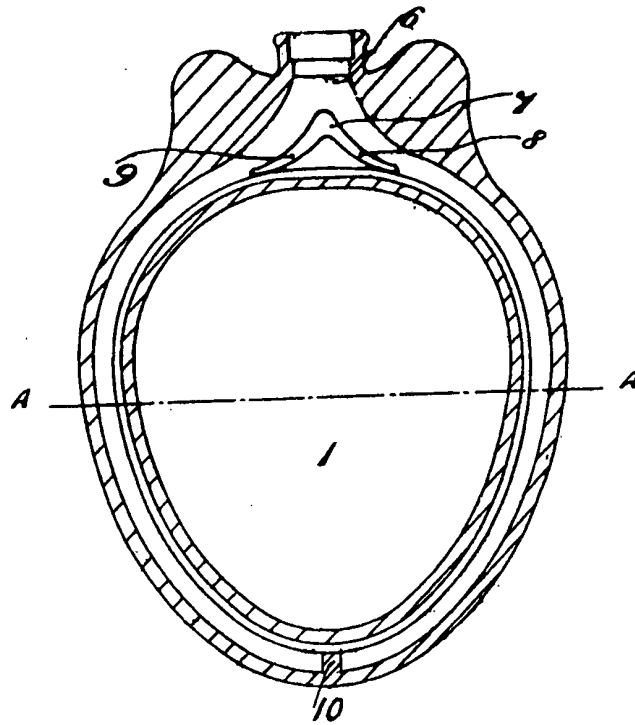
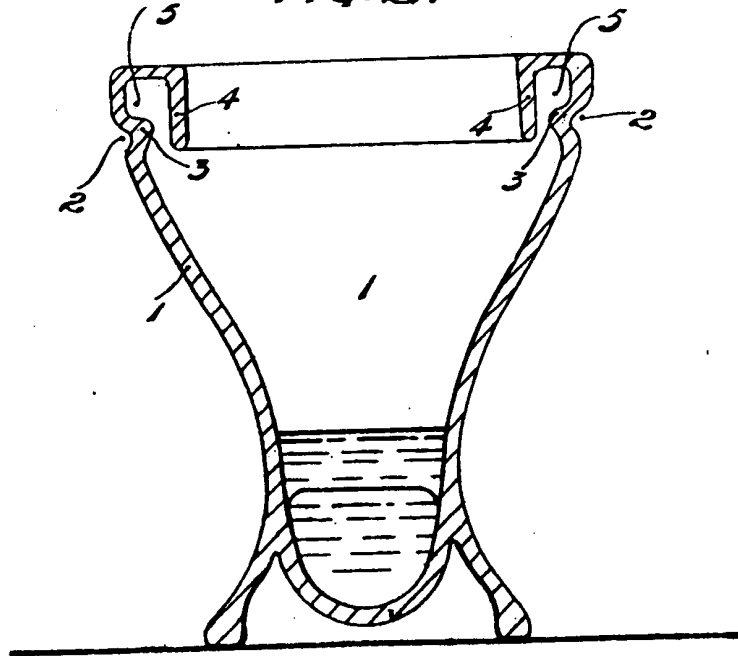


Fig. 2.



[This Drawing is a reproduction of the Original on a reduced scale.]

N^o 30,036



A.D. 1913

DUPLICATE

Date of Application, 31st Dec., 1913

Complete Specification Left, 12th June, 1914—Accepted, 1st Oct., 1914

PROVISIONAL SPECIFICATION.

Improvements in or relating to Water Closet Pans.

I, JOHN SHANKS, of Tubal Works, Barrhead, Renfrewshire, Sanitary Engineer, do hereby declare the nature of this invention to be as follows:—

This invention relates to the construction of water closet pans particularly such as are formed by casting, whether of ware or of metal.

- 5 In accordance with a preferred embodiment of the invention, without varying the thickness of the casting, I constrict the contour of the pan adjacent to the upper edge so as to form a recess on the outer face and to form on the inner face a gutter which may extend completely around the pan but preferably extends substantially around the same—the extreme front and extreme rear
10 being formed without such gutter.

- The said gutter affords in conjunction with the rim of the pan downturned into fairly close proximity with the gutter a conduit the outer wall of which is closed so that water admitted at the inlet at the rear end of the pan will flow through this conduit to approximately the front end of the pan and thus
15 provide a front flush.

At the inlet there may be fitted a divider constituted by two vanes or wings inclined to each other and serving to direct the inflowing water on to the gutter at each side.

- In an alternative construction, the gutter may be constituted by a suitably
20 shaped part cast in the mould, such gutter extending inwardly as in the case of the gutter formed by constricting the casting.

In either case the provision of the gutter does not necessitate increase in the outside dimensions of the pan.

- It will be appreciated that the water flowing through the conduit follows a
25 curved path, so that centrifugal force and gravity are both called into play, the form of the conduit being designed to meet the conditions thus involved.

Dated this 30th day of December, 1913.

CRUIKSHANK & FAIRWEATHER, LIMITED,

WALLACE CRANSTON FAIRWEATHER,

30

Director,

62, Saint Vincent Street, Glasgow, and

65—66, Chancery Lane, London, W.C.,

Agents for the Applicant.

COMPLETE SPECIFICATION.

- 35 **Improvements in or relating to Water Closet Pans.**

I, JOHN SHANKS, of Tubal Works, Barrhead, Renfrewshire, Sanitary Engineer, do hereby declare the nature of this invention and in what manner the same

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Shanks's Improvements in or relating to Water Closet Pans.

is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a construction of water closet pan of the type provided with a conduit extending substantially around the upper edge, the lower wall of such conduit being constituted by the upper face of a shoulder or neck 5 produced by reducing the cross-section of the pan adjacent to the upper edge.

The invention consists in a pan which is constricted adjacent to the upper edge so as to form a recess on the outer face merging both above and beneath into portions of greater dimensions in cross-section, the inner face of the recessed portion forming the lower wall of the conduit. 10

A water closet pan embodying the invention is illustrated in the accompanying drawing of which Fig. 1 is a plan and Fig. 2 is a section in the line A—A, Fig. 1.

As shown, without varying the thickness of the casting, I constrict the contour of the pan 1 adjacent to the upper edge so as to form a recess 2 on the 15 outer face and to form on the inner face a gutter 3 which may extend completely around the pan but preferably extends substantially around the same—the extreme front and extreme rear being formed without such gutter.

The said gutter 3 affords in conjunction with the rim 4 of the pan 1, which rim is downturned into fairly close proximity with the gutter, a conduit 5 the 20 outer wall of which is closed, so that water admitted at the inlet 6 at the rear end of the pan will flow through this conduit 5 to approximately the front end of the pan and thus provide a front flush.

At the inlet 6 there may be fitted a divider 7 constituted by two vanes or wings 8—9 inclined to each other and serving to direct the inflowing water on 25 to the gutter at each side, as in prior constructions.

A second divider 10 may be provided at the front end of the pan, as in prior constructions.

The provision of the gutter does not necessitate increase in the outside dimensions of the pan. 30

It will be appreciated that the water flowing through the conduit follows a curved path, so that centrifugal force and gravity are both called into play, the form of the conduit being designed to meet the conditions thus involved.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that 35 what I claim is:—

(1) A water closet pan having a conduit extending substantially around the upper edge, characterised by this that the contour of the pan adjacent to the upper edge is constricted so as to form a recess merging above and beneath into portions of greater dimensions in cross-section, the inner face of the recessed 40 portion constituting the lower wall of said conduit, substantially as and for the purpose specified.

(2) A water closet pan constructed and arranged substantially as herein-described and illustrated in the accompanying drawings.

Dated this 5th day of June, 1914. 45

CRUIKSHANK & FAIRWEATHER, LIMITED,
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Director,
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Agents for the Applicant.